

## CLAIMS

1. A thrust needle bearing employing lubricating oil and having a rolling element (2) held by a cage (3) and rolling on a race (1a, 1b), wherein

5 the value of the arithmetic average roughness Ra of said rolling element (2) is set to at least 0.03  $\mu\text{m}$  and at most 0.15  $\mu\text{m}$ .

2. The thrust needle bearing according to claim 1, wherein

10 the value of the arithmetic average roughness Ra of a pocket guide face of said cage (3) is set to at most 0.4  $\mu\text{m}$ .

3. The thrust needle bearing according to claim 1, wherein

15 the value of the arithmetic average roughness Ra of said race (1a, 1b) is set to at most 0.5  $\mu\text{m}$ .

4. The thrust needle bearing according to claim 1, used in a compressor for an air conditioner.

20 5. The thrust needle bearing according to claim 1, used in an automatic transmission.

6. A thrust needle bearing employing lubricating oil and having a rolling element (2) held by a cage (3) and rolling on a race (1a, 1b), wherein

25 the clearance between a pocket guide face of said cage (3) and said rolling element (2) is set to at least 60  $\mu\text{m}$  and at most 130  $\mu\text{m}$ .

7. The thrust needle bearing according to claim 6, wherein said cage (3) is a W-type cage.

8. The thrust needle bearing according to claim 6, wherein  
the value of the arithmetic average roughness Ra of said rolling element (2) is set  
to at least 0.03  $\mu\text{m}$  and at most 0.15  $\mu\text{m}$ .

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9. The thrust needle bearing according to claim 6, used in a compressor for an  
air conditioner.

10. The thrust needle bearing according to claim 6, used in an automatic  
transmission.

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